BACON ACADEMY
2021-2022 PROGRAM OF STUDIES

Changes and Deletions

CHANGES IN COURSES:

(0474) 🔒 HUMAN ANATOMY/PHYSIOLOGY- APPLICATIONS (New addition to title and new course number from 0456)
Level: 2 (College credits earned through the College Career Pathways Program)
Credit: 0.5
Offering: Spring to grades 11-12
Prerequisite: Successful completion of Energy Explorations or Integrated Science and Biology; successful completion of or concurrent enrollment in Chemistry. A teacher recommendation may be substituted for a student not meeting prerequisites.
This course is designed for students who want a comprehensive study of the structure and function of the human body. The course will attempt to cover all the major organ systems of the human body with emphasis on developing an understanding of anatomical and physiological nomenclature and principles. The course is recommended for any student contemplating a career in allied health sciences such as nursing, physical therapy, occupational therapy, laboratory technician, respiratory technician, and cardiovascular technician. Students will learn to communicate in a variety of methods as they analyze and evaluate information from multiple resources. Students will also use problem solving skills and technology as a tool for learning, creating, organizing and presenting. The spring semester will emphasize those areas of study associated with work in the allied health sciences including several dissections.

(0833) MIDDLE CHILDHOOD
Level: 2
Credit: 0.5
Offering: Spring to grades 9-12
Prerequisite: None
Description: This course addresses the physical, social, emotional, moral and intellectual development of children from four to twelve. Typical and atypical development will be addressed. Students will analyze and evaluate information from multiple sources as they explore various exceptional children topics as well as analyze national and state special education laws and practices. Students will use problem-solving skills and gain experiential learning skills while working with students from various schools and students within the Colchester Public School district. ~~Elementary or Jack Jackter Intermediate School in an internship capacity in addition to working with students with special needs. Additionally students will participate in hands-on activities and work collaboratively with peers as well as the Unique Learners in school.~~

(0844) LIFE AFTER HIGH SCHOOL Renaming of the former TEEN ISSUES AND RELATIONSHIPS
Level: 2
Credit: 0.5
Offering: Spring to grades 11-12
Prerequisite: None

Description: Life After High School is a self-discovery oriented course that empowers students to critically evaluate issues and practice problem-solving skills related to personal, family, social, financial, and vocational life. Topics of study include: stress management, time management, how to cope and rise above setbacks,communication, relationships, employability skills,and “adulting” skills such as sewing on a button, meal planning and grocery shopping, apartment hunting, laundry basics, etc. Students will explore their future through a variety of hands-on projects and collaboration.

(0778) 🔓DIGITAL PHOTOGRAPHY
Level: 2
Credit: 0.5 (College credits earned through TRCC-CCP))
Offering: Fall & Spring Grades 9-12
Prerequisites: None
In Digital Photography students will learn all about Photography. We cover the basics of taking a photo, how to use all the functions of your camera, how to take the best picture you can with your phone, and basic composition techniques. Students will have the opportunity to use and take pictures on DSLR cameras and then apply basic edits to the photos in Photoshop. Some of the projects include: mastering the art of selfies, portrait photography, action photography, photojournalism, and landscape pictures.

(0213) 🔓 INTRODUCTION TO GEOGRAPHY
Level: 3
Credit: 1.0 (College credits earned through TRCC-CCP)
Prerequisite: Placement in various levels will be made based on teacher recommendation.
This course is designed for students who desire a more rigorous course in geography. Students in this course will understand how global interconnectedness impacts individual societies’ economic, political, social and environmental systems. The diffusion of people, resources and ideas across the globe, and the implications of this exchange over time are an integral component of study. The course also focuses on the regionalization process used by geographers to organize and understand the arrangement of people, places and environments on Earth, and how they function at multiple scales.

Note: Other updates to college credit listings included as related to changes in college alignment or changes in Bacon teaching staff.

0320) ALGEBRA 1 A/B
Level: 1
Credit: 1.0 math credit for 0320 and 1.0 elective credit for 0321 (Algebra 1 A/B Alternate Day), to be taken concurrently, for a total of 2 credits
Offering: Annually (this class meets daily) to grades 9-12
Prerequisite: Placement will be determined by teachers using a variety of student achievement data.
This course is based on the Connecticut curriculum which is designed to integrate the Common Core Math Curriculum and Practice Standards. This curriculum emphasizes problem solving and mathematical reasoning using real-world applications. Students will be required to use a variety of mathematical methods and representations to solve problems involving linear and nonlinear applications. Students will have opportunities to analyze and evaluate information and will be required to demonstrate an ability to communicate clearly and concisely using appropriate mathematical vocabulary and notation as part of

their problem solving. Technological literacy will be developed through regular use of a graphing calculator to enhance processing efficiency and investigate mathematical concepts. This class is taught everyday rather than every other day to give students more time to process and practice content. More support and individualized attention will be available to help students strengthen their math skills while learning the Algebra curriculum.

Credit Recovery

The only recovery credits granted toward a Bacon Academy diploma are those taken to earn credit for failed courses in Summer School and approved by Bacon Academy. An enrollment fee of $250 is required. Interested students must meet the following requirements to enroll in Bacon Academy Summer School for credit recovery:

- The student must have completed the failed course and taken the final examination.
- The student must have earned at least a 50% for the course.
- Students who lose credit because of the attendance policy can take Summer School courses to recover credit with the permission of the teacher.
- Students must not have exceeded the maximum of two credits toward graduation through Summer School.

NOTE: A student's failing grade is calculated into his/her cumulative GPA. The grade earned in Summer School will show on a student's transcript; however, Summer School credit recovery grades will not be included in a student's cumulative GPA. Summer school courses are subject to being offered only if enough students are in need of a particular course.

NOTE: Physical Education will no longer be offered as a credit advancement opportunity for students, but will be offered as a credit recovery option for students if enough students are in need of the course.

NEW COURSES:

(0438) CHEMISTRY IN THE COMMUNITY Replaces Chemistry Level 1, target population is for less math oriented students.
Level: 2
Credit: 1.0
Offering: Annually to grades 11-12
Prerequisite: Successful completion of Integrated Science or Energy Explorations. Algebra 1 is required, Algebra 2 is recommended. A teacher recommendation may be substituted for a student not meeting prerequisites.
Chemistry in the Community was developed by the American Chemical Society to introduce traditional high school chemistry topics which emphasize chemistry's impact on society. This level of chemistry prepares students for success on the Next Generation Science Standards (NGSS).With Chemistry in the Community, students evaluate data and make decisions based on observations in order to develop solutions to real-world problems. Topics include: Materials, Air, Water, Industry and Nuclear Interactions.

(0193) AUTHORS AND ACTIVISM
Level: 2
Offering: Fall, Spring to grades 10-12
Credit: 0.5
Prerequisite: None
This new course will seek to fit a niche for students who are interested in learning more about social justice topics and approaches to creative solutions. However, the focus will shift to include more deliberate analysis of texts - both historical and current - that foment change. From seminal texts and documents to modern editorials, articles, and even lyrics, students will understand how writers use their craft to engender societal conversation and impact change. Students will also produce their own writing that not only aligns with their interests and values, but which speaks to a public audience.

(0234) AFRICAN AMERICAN/BLACK AND PUERTO RICAN/LATINO STUDIES
Level: 2
Credit: 1.0;
Offering: Annually to grades 11-12
Prerequisite: U.S. History (may be taken concurrently)
The course is an opportunity for students to explore accomplishments, struggles, intersections, perspectives, and collaborations of African American/Black and Puerto Rican/Latino people in the U.S. Students will examine how historical movements, legislation, and wars affected the citizenship rights of these groups and how they, both separately and together, worked to build U.S. cultural and economic wealth and create more just societies in local, national, and international contexts. Coursework will provide students with tools to identify historic and contemporary tensions around race and difference; map economic and racial disparities over time; strengthen their own identity development; and address bias in their communities.

(0757) MANUFACTURING DESIGN AND PRODUCTION
Level: 2
Credit: 1.0
Offering: Annually to grades 10-12
Prerequisites: Successful completion of Manufacturing II, Graphics I or Advanced Graphics.

In this course the primary focus is taking the design aspect of Graphics and combining it with the production aspect of Manufacturing. Students will be creating their own projects using the Adobe Creative Suite and creating physical products using metal, plastics, paper and other media in the forms of signage, advertising and art. This course teaches students about different materials, their properties, and appropriate applications. In addition, this course focuses on exposing students to different technologies and production techniques which could allow a student to enter into different manufacturing, engineering and design careers. Students will be using technology such as CNC machines, welders, lathes, mills and other tools or machines needed to fabricate, construct and design their products.

DELETED FROM THE PROGRAM OF STUDIES:

(0684) COMMUNITY ACTIVISM **Discontinued due to teaching staff, shifted to "Authors and Activism"**
Level: 2
Credit: 0.5
Offering: Fall, Spring 10, 11, 12
Prerequisite: None
Ghandi said, "Be the change you wish to see in the world" and Community Activism builds on this idea. Better known as "CA," this team-taught course is open to any student who is interested in a hands-on approach to studying "community" on all levels ranging from Bacon Academy itself right up to the global community. Topics addressed might include human trafficking, water privatization, wealth inequality, global conflict, refugees or pollution. Students in this course will not only learn how to evaluate problematic issues, how to plan and implement solutions, and how to present their ideas publicly, but they will also learn how to "create community" in a world of isolation and self-absorption. (We guarantee that the students in this class will feel that they belong to a "tribe" that needs their contributions.) Class activities focus on research and data collection, writing to legislators, public speaking, role-playing games and problem-solving skills. Students may be encouraged to attend evening events (meetings, films, etc.) as well as participate in an overnight field trip.

(0430) CHEMISTRY (Replaced with Chemistry and the Community)
Level: 1
Credit: 1.0
Offering: Annually to grades 11-12
Prerequisite: Successful completion of Integrated Science. Algebra 1 is required, Algebra 2 is recommended. A teacher recommendation may be substituted for a student not meeting prerequisites. This course is an investigation into the structure and composition of substances, the changes in composition and the mechanisms by which these changes occur. This level of chemistry covers the Connecticut State Frameworks while transitioning to Next Generation Science Standards (NGSS). Concepts included are matter, energy, atomic structure, chemical bonding, chemical reactions, thermodynamics, phases of matter, solutions, acids and bases. Contemporary issues are included as appropriate. Students are encouraged to analyze and evaluate problems from multiple sources. This course is designed for those students wanting to meet general college requirements for laboratory science. Chemistry Level I is suggested for students needing a fundamental approach to learning and special assistance in order to master basic concepts in chemistry.

(0421) BIOLOGY the department is moving to deleveling to prevent tracking and offer a higher course level to students
Level: 1
Credit: 1.0
Offering: Annually to 10th grade students
Prerequisite: Successful completion of Energy Explorations. A teacher recommendation may be substituted for a student not meeting prerequisites.
This level of biology prepares students for success on the Next Generation Science Standards (NGSS). The major themes are diversity of life, the interrelationships between structure and function, cell biology, genetics and evolution. Students will be required to interpret data obtained from laboratory investigations and use appropriate technology to effectively communicate and analyze results. Biology level I is

suggested for students needing a fundamental approach to learning and/or special assistance to master basic concepts in biology.

(0471) ENERGY EXPLORATIONS the department is moving to deleveling to prevent tracking and offer a higher course level to students
Level: 1
Credit: 1.0
Offering: Annually to all 9th grade students
Prerequisite: Open to students who have been recommended by their 8th grade teacher and/or school counselor.
This level of Energy Explorations is designed for students needing a fundamental approach to learning and/or special assistance to master basic concepts in science.Energy Explorations is aligned to the Next Generation Science Standards (NGSS). The focus of the course is energy and energy transformations as related to the formation of and continual change in the Earth. This course is an integration of chemical, physical and biological sciences. Contemporary issues in science are also explored and related to everyday situations. Organizational skills, note taking, problem solving skills, use of technology, study skills and test taking strategies will be included as part of the Energy Explorations curriculum.

CREDIT FOR ADVANCEMENT

Physical Education
This is a 0.5 credit course that will provide students the opportunity to free their schedules for other electives. Students will be required to participate in weekly cardiovascular and endurance activities. Personal fitness is designed to give students the knowledge and desire to establish an individual health and fitness program. This course provides safe, challenging, and enjoyable activities that will allow students to assess and evaluate their lifestyles on their own time. Students will be issued a Heart Rate Monitor (HRM), Watch and Strap to record their workout sessions. *The fee for this course is $150.*